Model "ED700"

Omni-oid offset dipole antenna covering the 698-806 MHz spectrum. The entire antenna is constructed out of 6061 structural aluminum. All integral radiating joints are welded, not bolted, ensuring many years of reliable performance with low PIM.

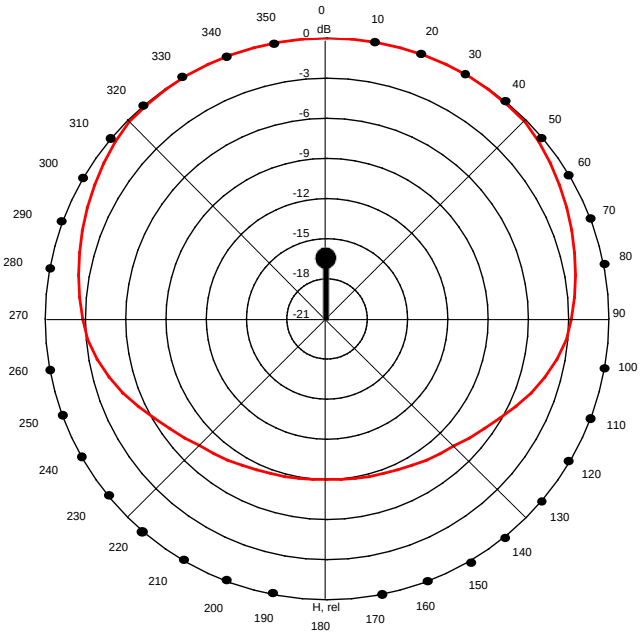
Multiple bays of the ED700 can be stacked vertically to satisfy increased gain and power requirements. An external power divider and feed cables are included with each multiple bay array.

698-806 MHz

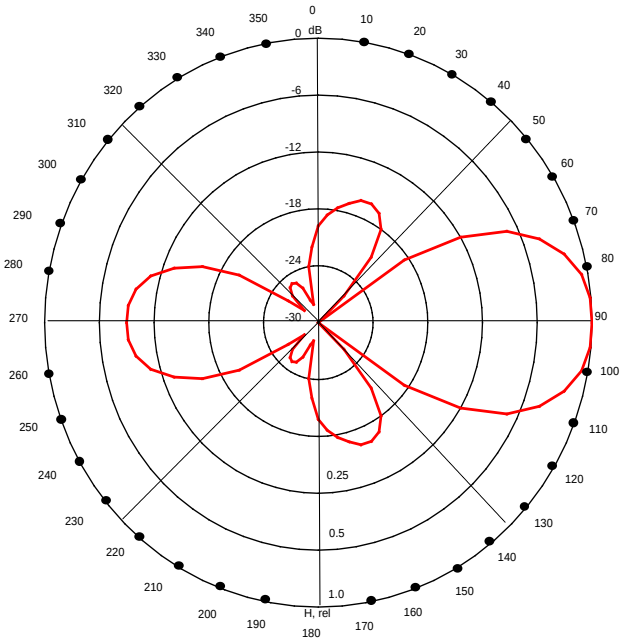
700 MHz

Power Antenna Manufacturing

Electrical



V pol - Horizontal Radiation Pattern (H-Plane)

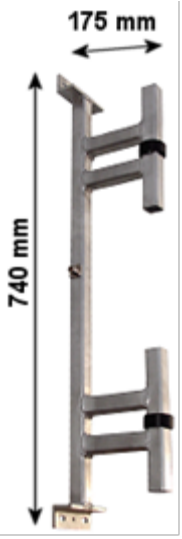


V pol - Vertical Radiation Pattern (E-Plane)

Frequency:	698-806 MHz
Gain:	5.5 dBd (7.6 dBi) single bay
-3dB HPBW (H-Plane):	200 degrees
-3dB HPBW (E-Plane):	30 degrees
Impedance:	50 ohms
VSWR:	<1.3:1 (1.2:1 typical)
Polarization:	Vertical
Max. Input Power:	500W standard, higher input power available
PIM:	< -150 dBc (2 x 20w)
Input Connector:	N female
F/B Ratio:	9 dB
XPD:	20 dB typical
Beam tilt:	Any degree of electrical or mechanical available

Mechanical

Exterior material:	Structural aluminum, all weld
Interior material:	Machined brass
Dimensions:	740 mm X 175 mm
Grounding:	Antenna and radiating elements are DC grounded for lightning protection
Mounting clamps:	HDG clamps are included for attachment to customer supplied mast up to 63 mm (2.5") OD.
Icing protection:	Antenna design, internal network, and feed point cover ensure reliable operation under adverse weather conditions
Shipping:	The antenna is shipped fully assembled



# of Bays	Gain (dBd)	Gain (dBi)	Gain (Pr)	Weight (Kg)	Overall Height (meters)	Windload N @ 160 km/h	
						Frontal	Lateral
1	5.5	7.6	3.6	2.5	0.8	46	64
2	8.6	10.7	7.2	5.0	1.6	92	128
3	10.4	12.5	11.0	7.5	2.4	138	192
4	11.8	13.9	15.1	10.0	3.2	184	256
6	13.5	15.6	22.4	15.0	4.8	276	384
8	15.0	17.1	31.6	20.0	6.4	368	512
12	16.5	18.5	44.7	30.0	9.6	552	768

698-806 MHz

700 MHz

Antenna Height { H } in Meters Antenna Spacing { S } in mm		
No of Bays	H	S
1	0.8	-
2	1.6	800
3	2.4	800
4	3.2	800
6	4.8	800
8	6.4	800
12	9.6	800